

Appl. No. 10/065,953
Amdt. Dated May. 26, 2004
Reply to Office action of Feb. 26, 2004

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1.(currently amended) ~~A~~ A cooling apparatus for ~~an~~ an illumination system of ~~an~~ an optical engine, the illumination system comprising a light source and a lamp base for the light source and having a side, the cooling apparatus comprising
~~an illumination system comprising a light source and a lamp base for the light source, wherein the lamp base has a side;~~
an air duct body having a top side opening, a bottom side opening, and an interior side between the top side opening and the bottom side opening, wherein the bottom side opening is fixed attached on the side of the lamp base;
at least one partition ~~located~~ located in the interior side of the air duct body and separating the air duct body into a plurality of air ducts;
an external air duct ~~connecting~~ connected to one of the ~~plural~~ plurality of air ducts ~~from~~ at the bottom side opening of the air duct body and extends ~~the air duct~~ to outside of the air duct body; and
a fan attached on the top side opening of the air duct body.

Claim 2.(currently amended) ~~The cooling apparatus for illumination system of optical engine as claimed in Claim 1, wherein the plurality of air ducts are~~
comprise a light source air duct, a lens air duct, and an auxiliary air duct, and each of the plurality of air ducts have has a different surface areas cross-section area

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Claim 3.(currently amended) The cooling apparatus ~~for illumination system of optical engine~~ as claimed in Claim 2, wherein the lamp base has an exit, ~~connecting~~ connected to the an entrance of a lens framework, and ~~forming an adjoining surface, and~~ wherein the lens air duct spans across ~~the sides of the an adjoining surface between the lamp base and the lens framework.~~

Claim 4.(currently amended) The cooling apparatus ~~for illumination system of optical engine~~ as claimed in Claim 2, wherein ~~the bottom of the auxiliary air duct installed a bottom plate and~~ with an air guiding hole is attached on a bottom of the auxiliary air duct wherein the bottom plate ~~can guide the~~ guiding air to the air guiding hole, and wherein the external air duct ~~extends from underneath the air duct body to~~ is connected to the air guiding hole and ~~further by the side of~~ extends form the air guiding hole to near the exit of the lens framework.

Claim 5.(currently amended) The cooling apparatus ~~for illumination system of optical engine~~ as claimed in Claim 2, wherein the light source air duct ~~guides the most amount of the air to the light source inside the lamp base.~~

Claim 6.(currently amended) The cooling apparatus ~~for illumination system of optical engine~~ as claimed in Claim 1, wherein the fan is ~~an~~ axial fan.